

It has long been known that tachinid flies parasitise adult beetles. It appears that not all of them have the same mode of infesting their host. Thus on June 14 I took a female *Lina scripta* which had four eggs of a tachinid fastened upon her elytra. This beetle was kept alive in order to ascertain if the parasitism was successful. Shortly afterward this beetle laid a large number of eggs and in the course of another week died. No tachinids resulted although the dead beetle was kept in the breeding jar for several weeks.

A number of records have been made of tachinid rearings from adult Chrysomelidae, as well as from coleoptera of other families. It is doubtful, however, that any statements can be found that indicate the mode of parasitization or the habits of the tachinids in question. It is to be hoped that this subject, in which Townsend has recently opened such an interesting perspective, will attract other students.

#### A LIST OF COLEOPTERA COLLECTED WITHIN TEN MILES OF FALL RIVER, MASSACHUSETTS.

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ONE of the aims of the Fall River Society of Natural History is to make a list of the fauna and flora found within ten miles of the City Hall. All the beetles in the following list were taken within this ten mile radius, and with a few exceptions, are represented in the collection of the society. Fully ninety percent have been taken during the last five years by a single individual. At least three hundred more species may be confidently expected to occur in the region.

The region, coming as it does, within a debatable portion of the transitional zone, is a very interesting one. The varied physical features make it a delightful and productive collecting ground.

From North to South, directly through the center of the region, runs the escarpment formed on account of the contact between hard granitic rocks and the soft sediments of the Rhode Island coal measures. A mile or more to the eastward of this contact, upon the upland, lies a chain of fresh water lakes, extending nearly the length of the area. To the eastward of the lakes are tracts of forest growth, principally of oak and pine, and extended areas of dense cedar swamps.

To the westward, of the escarpment lies the estuarian region of the Narragansett basin, with its miles of varied shore lines and acres of cleared lands.

In its retreat across this limited area, the glacier made four distinct pauses. The resultant moraines, and over-wash plains, are productive of many interesting forms of animal and plant life.

Many thanks are due to those, who by gifts of specimens, or by assistance in identification, have made this list possible.

One thousand and nineteen identified species are listed. The abbreviation "sp." occurring at the end of a generic list, indicates a specimen, or specimens in the collection which have not been identified. Some of them are undoubtedly undescribed forms. The compiler would be pleased to communicate with any coleopterist interested in these particular groups.

CICINDELIDÆ.			
Cicindela.	æneus Hbst.		Patrobus.
6-guttata Fab.	hardyi Putz.		longicornis Say.
purpurea Oliv.	Scarites.		Myas.
generosa Dej.	subterraneus Fab.		coracinus Say.
vulgaris Say.	Dyschirius.		Pterostichus.
repanda Dej.	globulosus Say.		adoxus Say.
hirticollis Say.	Clivina.		lucublandus Say.
punctulata Fab.	americana Dej.		inictuosus Dej.
marginata Fab.	Bembidium.		corvinus Dej.
	americanum Dej.		scrutator Lee.
	nigrum Say.		mutus Say.
	ustulatum Linn.		luezotii Dej.
	variegatum Say.		erythropus Dej.
	versicolor Lee.		patruelis Dej.
CARABIDÆ.	contractum Say.		Amara.
Omophron.	assimile Gyll.		avida Say.
americanum Dej.	quadrimaculatum Linn.		fulvipes Putz.
tessellatum Say.	semistriatum Hald.		lator Kirby.
Cyphrus.	Tachys.		impuncticollis Say.
lecontei Dej.	scitulus Lee.		cupreolata Putz.
Carabus.	corruscus Lee.		erratica Sturm.
serratus Say.	laevus Say.		interstitialis Dej.
Calosoma	nanus Gyll.		chaleea Dej.
scrutator Fab.	flavieauda Say.		rubrica Hald.
calidum Fab.	inecurvus Say.		Dicaelus.
Elaphrus.	granarius Dej.		dilatatus Say.
cieatricosus Lee.			
Notiophilus.			

elongatus Bon.	ornata Say.	partiarius Say.
politus Dej.	var. axillaris Dej.	Gynandropus.
Badister.	fuscata Dej.	hylacis Say.
notatus Hald.	furcata Lec.	Harpalus.
Calathus.	vittata Fab.	viridiaeus Beauv.
impunctatus Say.	Apristus.	calignosus Fab.
Platynus.	sub sulcatus Dej.	faunus Say.
simuatus Dej.	Axinopalpus.	pennsylvanicus DeG.
extensicollis Say.	biplagiatus Dej.	var. compar Lee.
deorus Say.	Pinacodera.	pleuriticus Kirby.
pusillus Lee.	limbata Dej.	herbivagus Say.
atratus Lee.	platicollis Say.	laticeps Lee.
melanarius Dej.	Helluomorpha.	Selenophorus.
affinis Kirby.	praeusta Dej.	gagatinus Dej.
cupripennis Say.	Brachynus.	opalinus Lee.
excavatus Dej.	minutus Harr.	Stenolophus.
octopunctatus Fab.	perplexus Dej.?	fuliginosus Dej.
placidus Say.	fumans Fab.	con junctus Say.
bogemanni Gyll.	cordicollis Dej.	ochropezus Say.
aeruginosus Dej.	1 sp.	humidus Hamilton.
crenistriatus Lec.	Chlaenius.	Acupalpus.
punctiformis Say.	sericeus Forst.	carus Lee.
sordens Kirby.	nemoralis Say.	Bradycellus.
ruficornis Lee.	tricolor Dej.	rupestris Say.
retractus Lee.	pennsylvanicus Say.	Tachycellus.
picipennis Kirby.	impunctifrons Say.	kirbyi Horn.
Casnomia.	niger Rand.	Anisodactylus.
pennsylvanica Linn.	tormentosus Say.	rusticus Dej.
Galerita.	Anomoglossus.	harrisii Lee.
janus Fab.	pusillus Say.	nigerrimus Dej.?
Lebia.	Oodes.	nigrita Dej.
grandis Hentz.	fluvialis Lec.	baltimorensis Say.
atriventris Say.	Geopinus.	terminatus Say.
pulchella Dej.	incrassatus Dej.	lugubris Dej.
viridis Say.	Agonoderus.	sericeus Harr.
pumila Dej.	lineola Fab.	interstitialis Say.
viridipennis Dej.	pallipes Fab.	

## HALIPLIDÆ.

*Haliphus.*  
*fasciatus* Aubé.  
*(triopsis* Aubé?)  
*ruficollis* De G.  
*longulus* Lee.  
*Cnemidotus.*  
*muticus* Lee.  
*1 sp.*

## DYTISCIDÆ.

*Hydrocanthus.*  
*iricolor* Say.  
*Laceophilus.*  
*maculosus* Germ.  
*undatus* Aubé.  
*Hydrovatus.*  
*cuspidatus* Germ.  
*Bidessus.*  
*(pulicarius* Aubé.)  
*affinis* Say.  
*fuscatus* Cr.  
*granarius* Aubé.  
*Coelambus.*  
*inaequalis* Fab.  
*faretus* Lee.  
*turbidus* Lee.  
*nubilus* Lee.  
*dissimilis* Harr.  
*impressopunctatus* Sch.  
*Deronectes.*  
*catascopium* Say.  
*Hydroporus.*  
*undulatus* Say.  
*elypeblis* Sharp.  
*teneosus* Lecar.

*tristis* Payk.  
*americanus* Aubé.  
*modestus* Aubé.  
*2 sp.*  
*Ilybius.*  
*biguttalus* Germ.  
*Coptotomus.*  
*interrogatus* Fab.  
*Hybiosoma.*  
*bifarius* Kirby.  
*Copelatus.*  
*glyphicus* Say.  
*Matus.*  
*bicarinatus* Say.  
*Agabetes.*  
*acuductus* Harr.  
*Agabus.*  
*seriatus* Say.  
*aeruginosus* Aubé.  
*semipunctatus* Kirby.  
*punctulatus* Aubé.  
*reticulatus* Kirby.  
*erythropterus* Say.  
*gagates* Aubé.  
*Rhantus.*  
*binotatus* Harr.  
*bistriatus* Bergst.  
*Colymbetes.*  
*sculptilis* Harr.  
*Hydaticus.*  
*binotatus* Say.  
*Dytiseus.*  
*fasciventris* Say.  
*hybridus* Aubé.  
*Acilius.*  
*semisuleatus* Aubé.  
*fraternus* Harr.

*mediatus* Say.  
*Graphoderes.*  
*liberus* Say.

## GYRINIDÆ.

*Gyrinus.*  
*limbatus* Say.  
*ventralis* Kirby.  
*borealis* Aubé.  
*lugens* Lee.  
*Dineutes.*  
*vittatus* Germ.  
*assimilis* Aubé.

## HYDROPHILIDÆ.

*Helophorus.*  
*linearis* Lee.  
*inquinatus* Mamm.  
*Hydrochus.*  
*inaequalis* Lee.  
*subcypreus* Rand.  
*squamifer* Lee.  
*Hydraena.*  
*pennsylvanica* Kies.  
*Hydrophilus.*  
*triangularis* Say.  
*Tropisternus*  
*nimbatus* Say.  
*glaber* Lee.  
*Hydrocharis.*  
*obtusatus* Say.  
*Berosus.*  
*aculeatus* Lee.  
*peregrinus* Hbst.  
*striatus* Say.  
*Laccobius.*  
*agilis* Rand.

Phillydrus.	noveboracensis Forst.	analis Grav.
ochraceus Mels.	americana Linn.	collaris Fauv Ms.
cinctus Say.	Choleva.	10 sp.
perplexus Lee.	clavicornis Lec.	Lomechusa.
hamiltoni Horn.	Prionchaeta.	cava Lee.
Cymbiodyta.	opaca Say.	Tachyusa.
fimbriatus Melsh.	Ptomaphagus.	1 sp.
lacustris Lee.	parasitus Lee.	Polistoma.
Helocombus.	Liodes.	maritima Casey.
bifidus Lee.	discolor Melsh.	Microglossa ?
Hydrobius.	Agathidium.	1 sp.
tunidus Lee?	exiguum Melsh.	Aleochara.
Creniphilus.	SCYDMAENIDÆ.	lata Grav.
fuscipes Linn.	Scydmænus.	bimaculata Grav.
subcypreus Say.	elavipes Say.	nitida Grav.
Sphaeridium.	PSELAPHIDÆ.	binotata ?,
scarabæoides Linn.	Ceophyllus.	3 sp.
Cercyon.	monilis Lee.	Haploglossa.
prætextatum Say.	Ctenistes.	1 sp.
pygmæum Ill.	Decarthron.	Oxypoda.
unipunctatum Linn.	exsectum Brend.	brevithorax Fauv Ms.
anale Payk.	Batrissus.	Thinusa.
Cryptopleurum.	globosus Lee.	maritima ?
minutum Fab.	1 sp.	Leptusa.
SILPHIDÆ.	Bryaxis.	1 sp.
Necrophorus.	rubicunda Aubé.	Grophaena.
americanus Oliv.	1 sp.	dissimilis Er.
sayi Lap.	STAPHYLINIDÆ.	corruscula Er.
orbicollis Say.	Falagria.	1 sp.
marginatus Fab.	bilobata Say.	Acylophorus.
pustulatus Hersch.	dissecta Er.	pronus Er.
tomentosus Web.	venustula Er.	pratensis Lee.
Silpha.	Atheta.	Quedius.
surinamensis Fab.	fulgidus Fab.	fulgidus Fab.
lapponica Hbst.	ænescens Mäkl.	ænescens Mäkl.
inæqualis Fab.	1 sp.	1 sp.
	Listotrophus.	Listotrophus.

<i>cingulatus</i> Grav.	<i>militaris</i> Casey.	<i>Erchomus.</i>
<i>Creophilus.</i>	<i>stygius</i> Say.	<i>ventriculus</i> Say.
<i>villosum.</i>	<i>egenus</i> Er.	<i>Conosoma.</i>
<i>Staphylinus.</i>	<i>flavicornis</i> Er.	<i>crassum</i> Grav.
<i>vulpinus</i> Nordm.	<i>annularis</i> Er.	<i>pubescens</i> Payk.
<i>maculosus</i> Grav.	<i>areculus</i> Er.	<i>Boletobius.</i>
<i>mysticus</i> Er.	<i>Cryptobium.</i>	<i>trinotatus</i> Er.
<i>fossator</i> Grav.	<i>bicolor</i> Grav.	<i>cinctus</i> Grav.
<i>cinnamopterus</i> Grav.	<i>pallipes</i> Grav.	<i>Mycetoporus.</i>
<i>violaceus</i> Grav.	<i>cribratum</i> Lee.	<i>consors</i> Lee.
<i>praelongus</i> Mann.	<i>Lathrobium.</i>	<i>americanus</i> Er.
<i>Ocypus.</i>	<i>punctulatum</i> Lee.	<i>Oxyporus.</i>
<i>ater</i> Grav.	<i>angulare</i> Lee.	<i>femoralis</i> Grav.
<i>Philonthus.</i>	<i>othiooides</i> Lee.	<i>vittatus</i> Grav.
<i>aeneus</i> Rossi.	<i>simile</i> Lee.	<i>fasciatus</i> Melsh.
<i>laetus</i> Say.	<i>simplex</i> Lee.	<i>lateralis</i> Grav.
<i>debilis</i> Grav.	<i>collare</i> Er.	<i>Bledius.</i>
<i>longicornis</i> Steph.	<i>ambiguum</i> Lee.	1 sp.
<i>discoideus</i> Grav.	<i>Stilicus.</i>	<i>Oxytelus.</i>
<i>fulvipes</i> Fab.	<i>angularis</i> Lee.	<i>sculptus</i> Grav.
<i>lomatus</i> Er.	<i>Lithocharis.</i>	<i>nitidulus</i> Grav.
<i>cyanipennis</i> Fab.	<i>confluens</i> Say.	<i>Trogophloeus.</i>
<i>blandus</i> Grav.	<i>Paderus.</i>	4-punctatus Say.
<i>nigritulus</i> Grav.	<i>littoreus</i> Aust.	<i>Geodromicus.</i>
<i>Actobius.</i>	<i>Sunius.</i>	<i>nigrita</i> Mühl.
<i>paderoides</i> Lee.	<i>prolixus</i> Er.	<i>Acidota.</i>
<i>Cafius.</i>	<i>longiusculus</i> Mann.	<i>subcarinata</i> Er.
<i>bistriatus</i> Er.	<i>Tachinus.</i>	<i>Olophrum.</i>
<i>sericeus</i> Holme.	<i>memnonius</i> Grav.	<i>rotundicolle</i> Sahlb.
<i>Xantholinus.</i>	<i>luridus</i> Er.	<i>Homalium.</i>
<i>cephalus</i> Say.	<i>funbriatus</i> Grav.	<i>rufipes</i> Fauv.
<i>obsidianus</i> Melsh.	<i>limbatus</i> Melsh.	<i>Anthobium.</i>
<i>obscurus</i> Er.	<i>pallipes</i> Grav.	<i>convexum</i> Fauv.
<i>Leptacinus.</i>	<i>Tachyporus.</i>	<i>Glyptoma.</i>
<i>nigritulus</i> Lee.	<i>jocosus</i> Say.	<i>costale</i> Er.
<i>Stenus.</i>	<i>chrysomelinus</i> Linn.	<i>Triga.</i>
<i>juno</i> Fab.	<i>brunneus</i> Fab.	<i>picipennis</i> Lee.

TRICHOPTERYGIDÆ.	Orthoperus.	fraternus Lee.
Ptenidium.	glaber Lee. ?	hæmorrhous Lee.
evanescens Marsh.		brullei Muls.
SCAPHIDIIDÆ.	COCCINELLIDÆ.	collaris Melsh.
Scaphidium.	Anisosticta.	cervicalis Muls.
quadriguttatum Say.	strigata Thunb.	tenebrosus Muls.
var. piceum Melsh.	seriata Melsh.	nanus Lee. ?
Bæocera.	Megilla.	Epilachna.
concolor Fab.	maculata De G.	borealis Fab.
apicalis Lee.	Hippodamia.	ENDOMYCHIDÆ.
Scaphisoma.	glacialis Fab.	Lycoperdina.
convexum Say.	13-punctata Linn.	ferruginea Lee.
Toxidium.	parenthesis Say.	Aphorista.
grammaroides Lee.	Coccinella.	vittata Fab.
PHALACRIDÆ.	trifasciata Linn.	Mycetina.
Phalaerus.	9-notata Hbst.	perpulchra Newm.
politus Melsh.	5-notata Kirby.	Endomychus.
pumilio Lee.	sanguinea Linn.	biguttatus Say.
1 sp.	Adalia.	EROTYLIDÆ.
Olibrus.	frigida Schn.	Languria.
lecontei Casey.	bipunctata Linn.	mozardi Lat.
pallipes Say.	var. humeralis Say.	gracilis Newm.
apicalis Melsh.	Anatis.	Tritoma.
nitidus Melsh.	15-punctata Oliv.	biguttata Say.
CORYLOPHIDÆ.	Psyllobora.	unicolor Say.
Sacium.	Chilocorus.	COLYDIIDÆ.
lunatum Lee.	bivulnerus Muls.	Synchita.
Corylophodes.	Brachyacantha.	fuliginosa Melsh.
marginicollis Lee.	ursina Fab.	Philothermus.
Sericoderus.	var. 10-pustulata Melsh.	glabriculus Lee.
flavidus Lee.	Hyperaspis.	CUCUJIDÆ.
Rhypobius.	fimbriolata Melsh.	Silvanus.
marinus Lee.	undulata Say.	surinamensis Linn.
	signata Oliv.	
	proba Say.	
	Scymnus.	

bidentatus Fab.  
planatus Germ.  
advena Waltl.  
Laemophlaeus.  
  biguttatus Say.  
  fasciatus Melsh.  
  convexus Lee.  
  testaceus Fab.  
Lathropus.  
  vernalis Lee.  
Brontes.  
  debilis Lec.

CRYPTOPHAGIDÆ.

Telmatophilus.  
  americanus Lee.  
Loberus.  
  impressus Lee.  
Atomaria.  
  ochracea Zimm.  
  ephippiata Zimm.  
Ephistemus.  
  apicalis Lee.

MYCETOPHAGIDÆ.

Mycetophagus.  
  flexuosus Say.  
Litargus.  
  didesmus Say.  
Typhœa.  
  fumata Linn.

DERMESTIDÆ.

Byturus.  
  unicolor Say.  
Dermestes.  
  caninus Germ.  
  lardarius Linn.

vulpinus Fab.  
Attagenus.  
  pieceus Oliv.  
Anthrenus.  
  serophulariae Linn.  
  varius Fab.  
  museorum Linn.  
Cryptorhopalum.  
  triste Lee.

HISTERIDÆ.

Hister.  
  planipes Lec.  
  arcuatus Say.  
  harrisii Kirby.  
  merdarius Hoffm.  
  abbreviatus Fab.  
  depurator Say.  
  unicus Casey.  
  bimaculatus Linn.  
  sedecimstriatus Say.  
  americanus Payk.  
  subrotundus Say.  
  lecontei Mars.  
  coarctatus Lee.  
  cylindricus Payk.

Hetærus.  
  brunnipennis Rand.

Onthophilus.  
  alternatus Say.

Saprinus.  
  rotundatus Kug.  
  pennsylvanicus Payk.  
  oregonensis Lee. var.  
  assimilis Payk.  
  placidus Er.

fraternus Say.  
dimidiatipennis Lee.  
Plegaderus.  
  transversus Say.  
Aeletes.  
  politus Lee.

NITIDULIDÆ.

Cercus.  
  abdominalis Er.  
Carpophilus.  
  dimidiatus Fab.  
Conotelus.  
  obseurus.  
Epuraea.  
  helvola Er.  
  avara Rand.  
  labilis Er.  
Nitidula.  
  rufipes Linn.  
Stelidotata.  
  geminata Say.  
Phenolia.  
  grossa Fab.  
Omosita.  
  colon Linn.  
Soronia.  
  undulata Say.  
Palloides.  
  silaceus Er.  
Cryptarcha.  
  ampla Er.  
  concinna Melsh.  
Ips.  
  fasciatus Oliv.  
Rhizophagus.  
  sculpturatus Mann.

(To be continued.)